

IN THE CLAIMS:

Claims 1-22. (Cancelled).

23. (New) A display apparatus of the type which forms a color image by modulating a plurality of lights, different from each other in color, by one or more display elements, said display apparatus comprising:

means for obtaining a plurality of different kinds of display modes by changing the color purity of at least one light of the plurality of lights;

means for supplying information representing the plurality of different kinds of display modes,

wherein said means for supplying information supplies said information in response to turning on an electrical source of said display apparatus.

24. (New) A display apparatus of the type which forms a color image by modulating a plurality of lights, different from each other in color, by one or more display elements, said display apparatus comprising:

means for exchanging a display mode with priority on purity and a display mode with priority on brightness by changing the color purity of at least one light of the plurality of lights;

means for displaying whether the display mode of said display apparatus is said display mode with priority on brightness in response to power-on of said display apparatus.

25. (New) A display apparatus of the type which forms a color image by modulating a plurality of lights, different from each other in color, by one or more display elements, said display apparatus comprising:

means for changing the color purity of at least one light of the plurality of lights by inserting or extracting a wavelength selection element into or out of the optical path of the at least one light or changing the attitude of said wavelength selection element disposed in the optical path of the at least one light; and

means for supplying information as to whether said wavelength selection element is in the optical path of the at least one light or information on the attitude of said wavelength selection element in the optical path of the at least one light in response to turning on an electrical source of said display apparatus.

26. (New) A display apparatus according to Claim 25, wherein means for supplying information comprises:

means for detecting that said wavelength selection element is in the optical path of the at least one light or that said wavelength selection element is in a predetermined attitude; and

means for lighting a lamp in response to output of said means for detecting.

27. (New) A display apparatus according to Claim 25, wherein said wavelength selection element is an element which transmits visible light of a wavelength longer than a predetermined wavelength and blocks visible light of a wavelength shorter than that or an element which transmits visible light of a wavelength shorter than a predetermined wavelength and blocks visible light of a wavelength longer than that.

28. (New) A display apparatus according to Claim 25, wherein said wavelength selection element is an edge filter, a band pass filter or a band cut filter.

29. (New) A display apparatus according to Claim 25, wherein said means for supplying information includes display means formed by at least one of an LED and a liquid crystal device.

30. (New) A display apparatus according to Claim 25, further comprising a plurality of dichroic mirrors for separating white light from a light source into a plurality of lights of different colors, wherein the plurality of lights of different colors consists of red, green and blue lights.

31. (New) A display apparatus according to Claim 30, wherein the display elements are arranged in correspondence with the red, green and blue lights, and wherein there are provided a plurality of dichroic mirrors for synthesizing image light from a plurality of second display elements modulating the red, green and blue lights.

32. (New) A display apparatus according to Claim 25, wherein the one or more display elements include three pixel groups, respectively corresponding to the red, green and blue lights, and a micro lens array condensing lights of the colors corresponding to the three pixels of each group.

33. (New) A display apparatus according to Claim 25, further comprising a projection lens for projecting the image of display portions of the one or more display elements onto a screen or a wall.

34. (New) A projection type display apparatus comprising:  
image display elements;  
a light source for illuminating said image display elements;

at least one first optical element for color-separating the light from said light source into at least two color lights and causing them to impinge upon said image display elements;

at least one second optical element for synthesizing the lights output from said image display elements into one;

a lens for projecting the light from said at least one second optical element in an enlarged state;

a third optical element which can be inserted into or removed from the optical path between said at least one first optical element and said at least one second optical element, said third optical element having characteristics of transmitting visible light of a wavelength longer than a predetermined wavelength and blocking visible light of a wavelength shorter than that or of transmitting visible light of a wavelength shorter than a predetermined wavelength and blocking visible light of a wavelength longer than that; and

means for supplying information as to whether said third optical element is in the optical path in response to turning on the electric source of said projection type display apparatus.

35. (New) A projection type display apparatus according to Claim 34, wherein said means for supplying information comprises:

means for detecting if said third optical element is in the optical path;  
and

means for displaying by a display lamp in response to output of said means for detecting.